FIG. 1

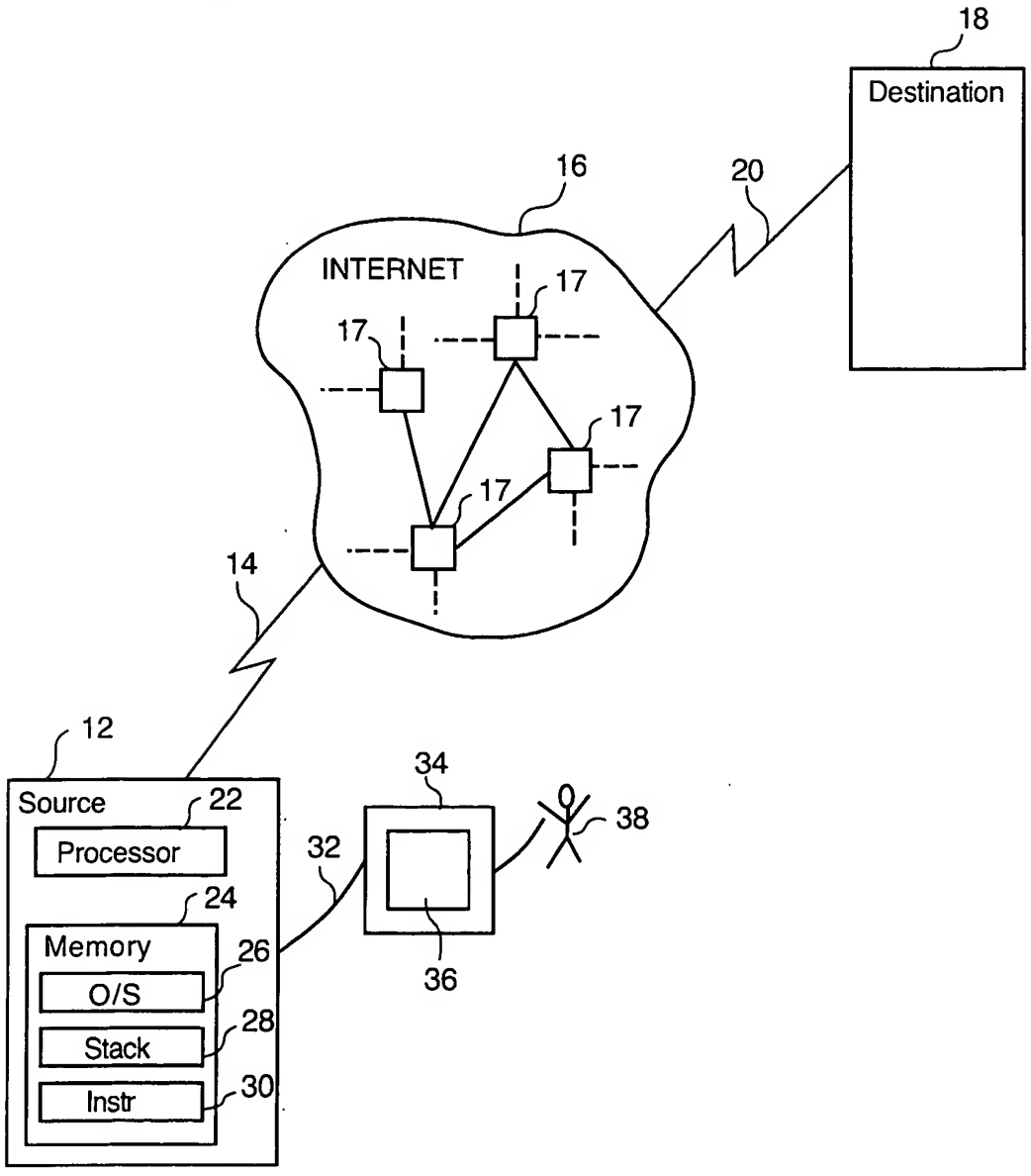

10
18
Destination
16
20
INTERNET
17
17
17
17
14
12
Source
22
Processor
24
Memory
26
O/S
28
Stack
30
Instr
34
32
38
36

FIG. 2

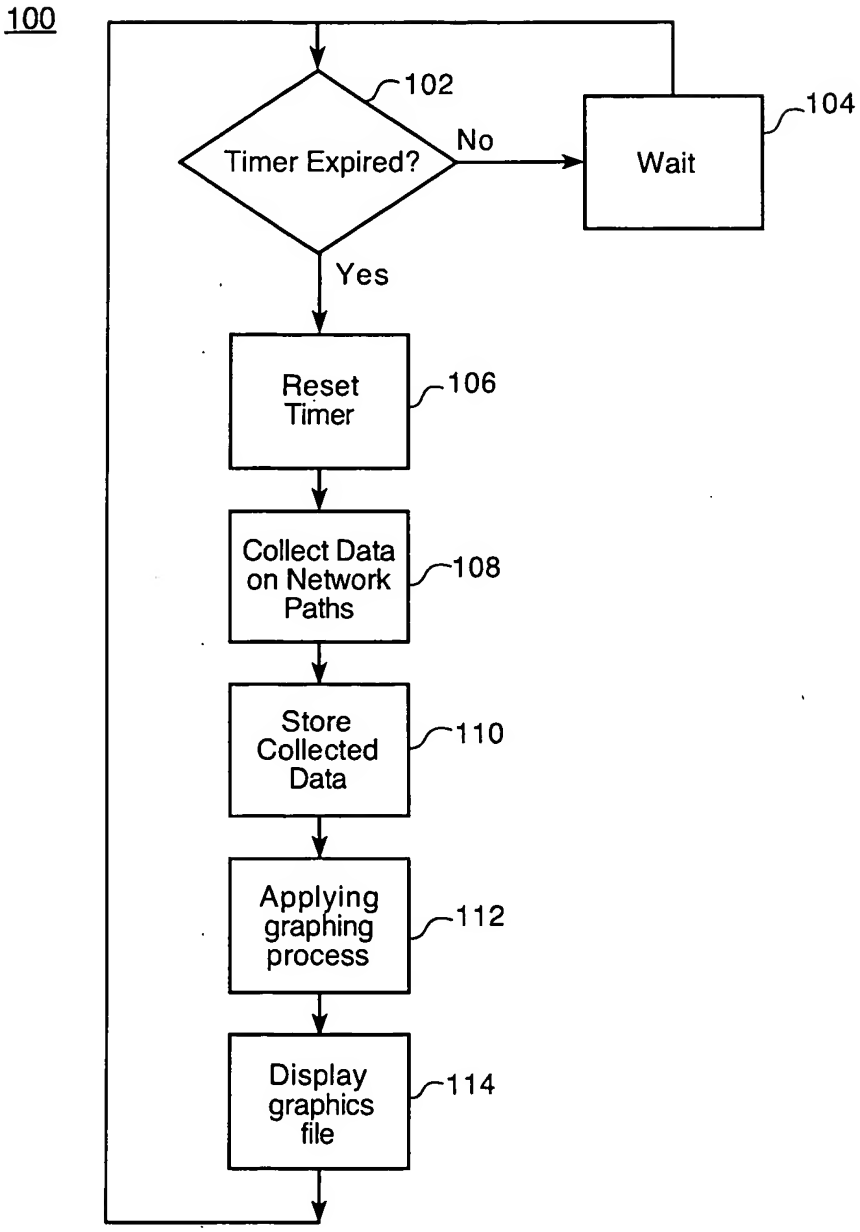

100
102
Timer Expired?
No
Wait
104
Yes
Reset Timer
106
Collect Data on Network Paths
108
Store Collected Data
110
Applying graphing process
112
Display graphics file
114

FIG. 3

200

```
Tracing route to useforesite.com [209.239.40.39]
  over a maximum of 30 hops:

  1 196 ms 161 ms 163 ms wg.dvol.com [206.20.144.10]
  2 181 ms 160 ms 162 ms irx.dvol.com [206.20.144.1]
  3 193 ms 181 ms 204 ms cust-2-frm-4-3.ph.idt.net [169.132.128.113]
  4 180 ms 187 ms 188 ms ph-t1.gw-1.dc.idt.net [206.20.128.33]
  5 197 ms 161 ms 162 ms core-1-eth-2-3.dc.idt.net [169.132.128.65]
  6 216 ms 223 ms 212 ms fddi2-1-0.br1.dca.globalcenter.net [192.41.177.118]
  7 189 ms 161 ms 168 ms pos6-0-0-155M.cr1.IAD.globalcenter.net [204.152.166.6]
  8 209 ms 175 ms 222 ms fe0-0.cr2.IAD.globalcenter.net [204.152.166.132]
  9 224 ms 186 ms 194 ms s3-0.cr1.BWI.globalcenter.net [209.143.255.6]
10 230 ms 216 ms 213 ms alabanza-to-fgc.globalcenter.net
[209.143.255.26]
  11 250 ms 195 ms 202 ms alabanza-to-fgc.globalcenter.net
[209.143.255.26]
  12 219 ms 211 ms 215 ms useforesite.com [209.239.40.39]

       Trace complete.
```

FIG. 4

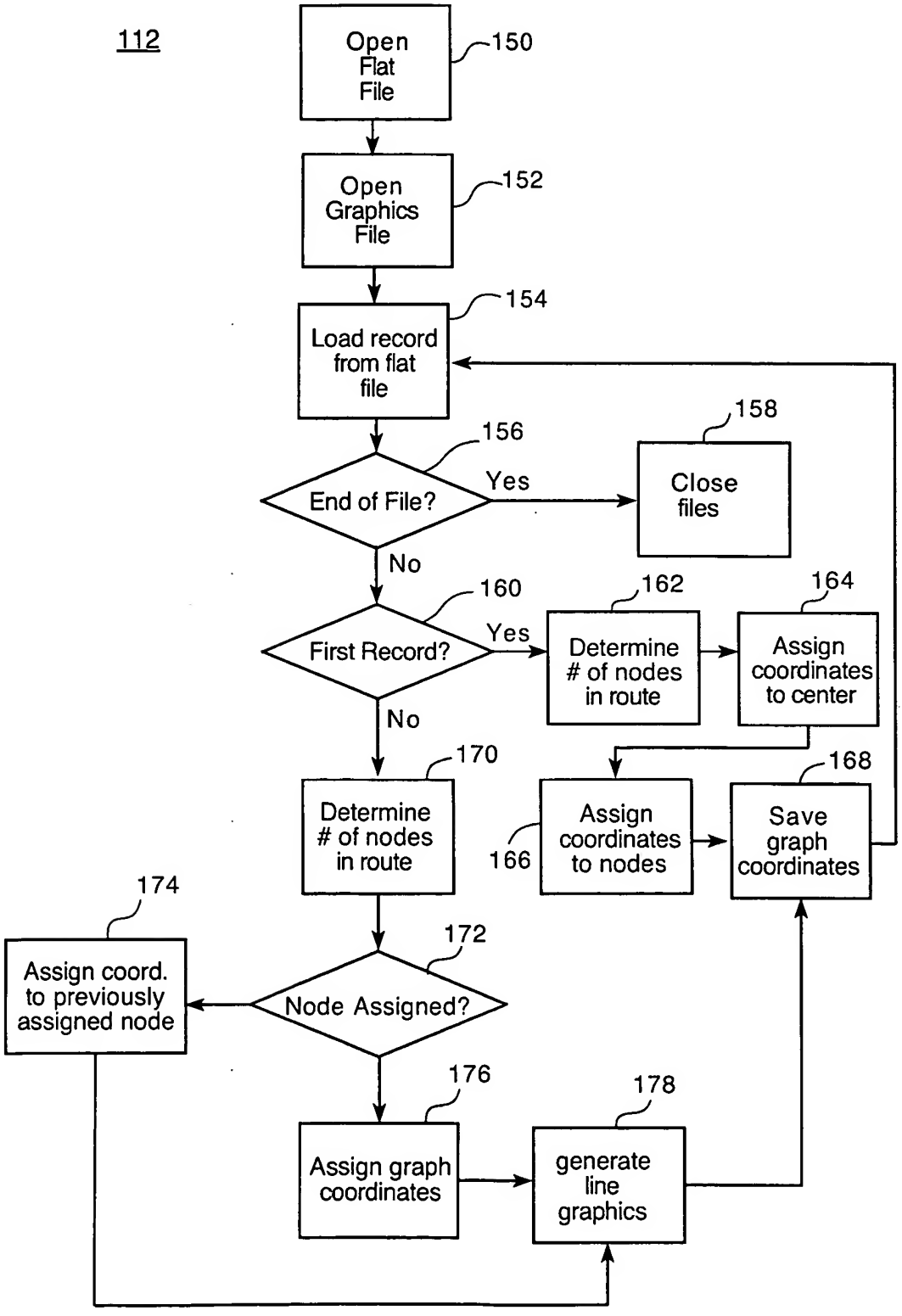

112
Open Flat File
150
Open Graphics File
152
Load record from flat file
154
End of File?
156
Yes
Close files
158
No
First Record?
160
Yes
Determine # of nodes in route
162
Assign coordinates to center
164
No
Determine # of nodes in route
170
Assign coordinates to nodes
166
Save graph coordinates
168
Assign coord. to previously assigned node
174
Node Assigned?
172
Assign graph coordinates
176
generate line graphics
178

FIG. 5A

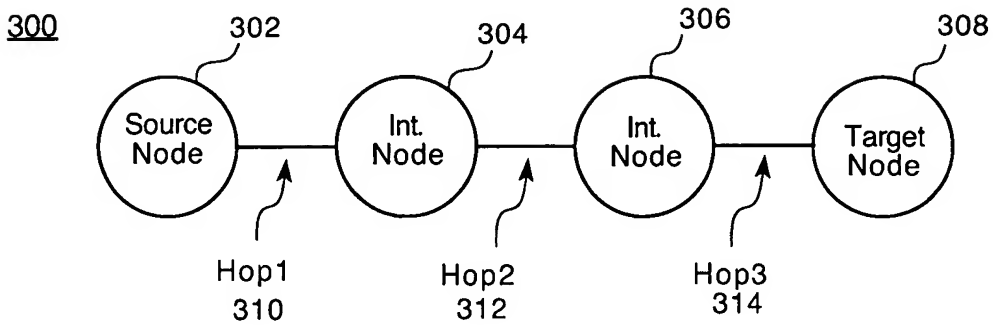
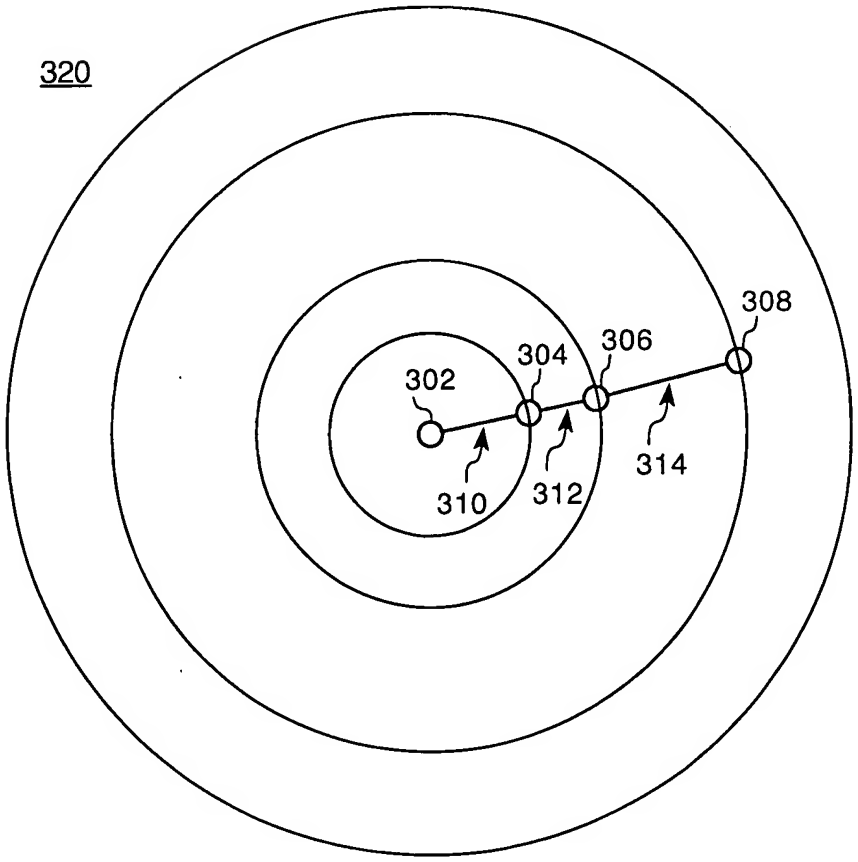

300
302
304
306
308
Source Node
Int. Node
Int. Node
Target Node
Hop1 310
Hop2 312
Hop3 314

FIG. 5B


320
308
304
306
302
310
312
314

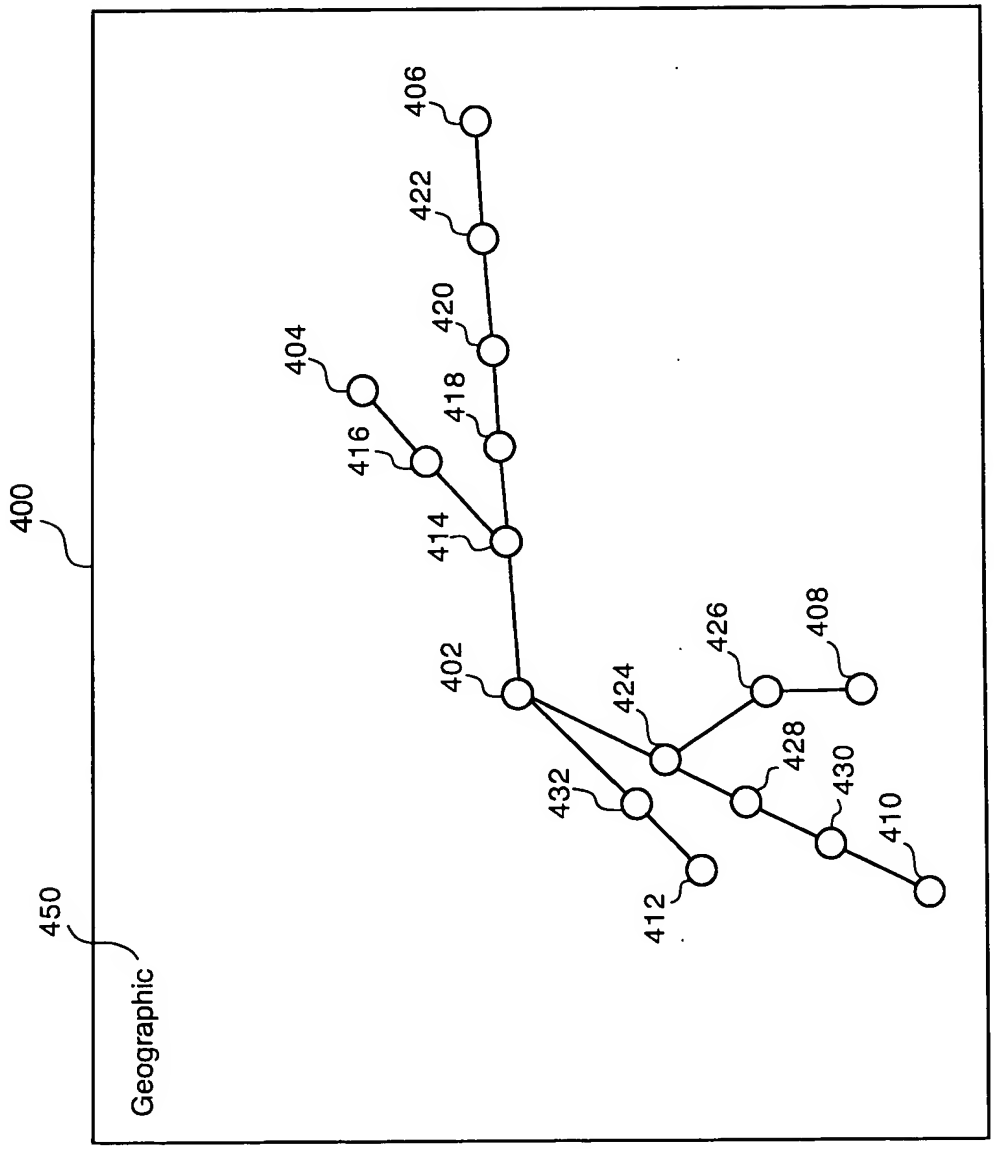
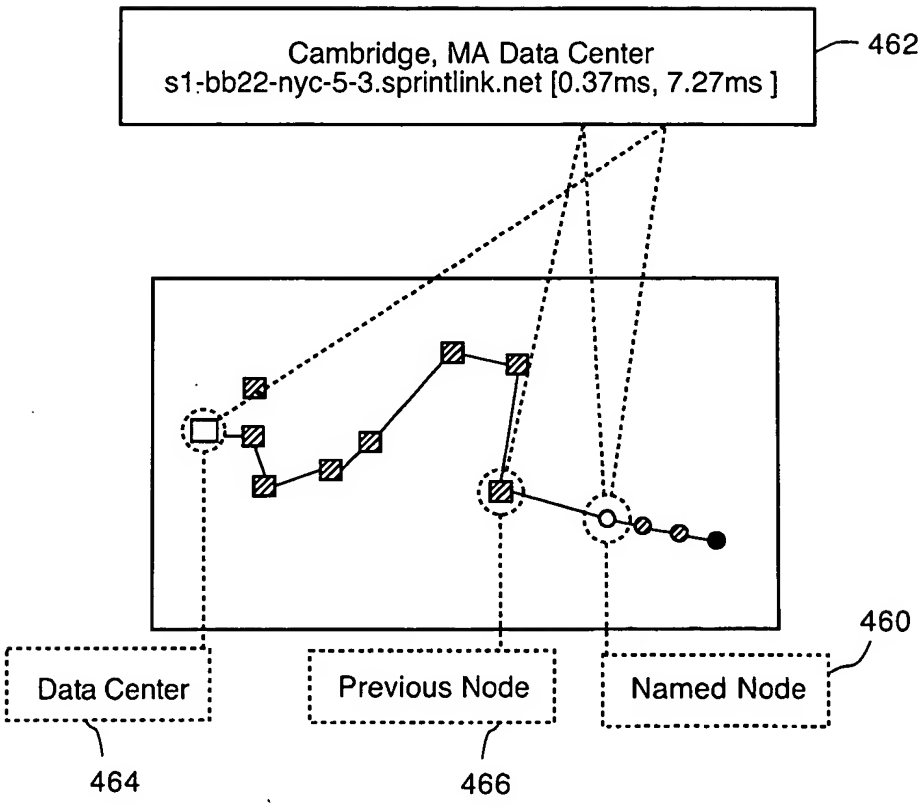

400
450
Geographic
406
422
420
404
418
416
414
402
426
408
424
428
430
432
410
412

FIG. 6

FIG. 7


Cambridge, MA Data Center
s1-bb22-nyc-5-3.sprintlink.net [0.37ms, 7.27ms]
462
460
Data Center
Previous Node
Named Node
464
466

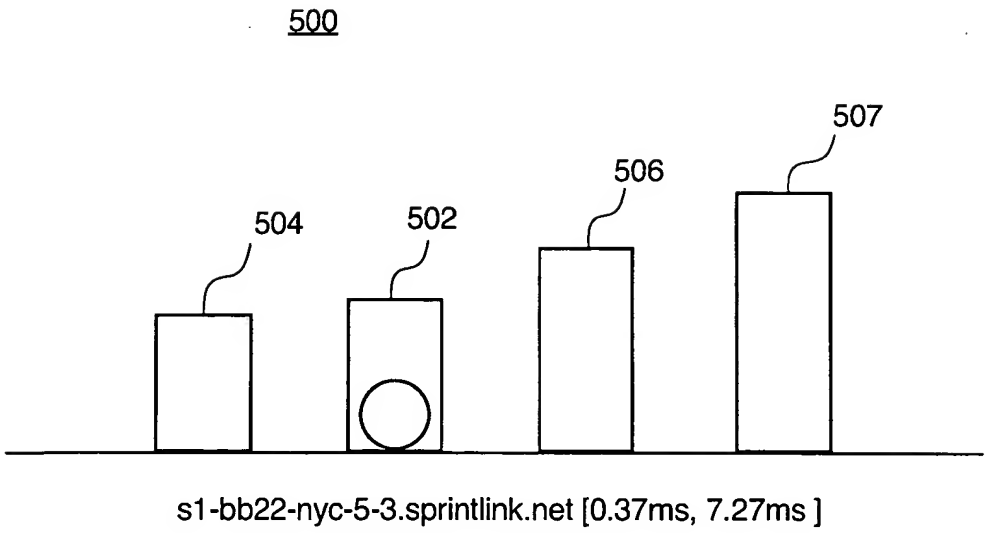



FIG. 8